

Draft Notes from Phone Call with Greg Wolf, Yakama Nation Hatchery Manager – Coho Reintroduction Project at Leavenworth

Will Share Notes with Greg for Correction of Any Errors, Missing Pieces

August 15, 2016

- Project does not rear Coho salmon year round – there's **2 distinct "seasons" of the Coho Reintroduction Project** at the LNFH – production on paper may say 450,000 -500,000 fish (equivalent to 27,000 pounds of fish) raised each year; but that encompasses the Adult Coho spawning project and the Juvenile Coho growth project.
- Adult Coho spawning project **between mid-September and mid-November** each year:
 - Fish from downstream caught after spawning and brought to Adult Holding Ponds at the Hatchery (where are the fish brought from exactly?)
 - Around 800 -1000 Adults brought in each year
 - Spawning at the Hatchery occurs from mid-October to mid-November
 - ½ the Coho eggs harvested are sent to the USFWS (?) or Yakama Nation (?) Peshastin Hatchery for hatching/raising (what happens with the other half?)
 - Formalin is used in the Fall to treat Adults while they are in holding ponds, keeps fish healthy
 - No Chlorine in use for disinfection?
 - 220 adult fish's eggs stay on site at LNFH, formalin treatment is dispensed to keep water disinfected while eggs are growing between October and February?: 75 mL formalin drips/every 15 minutes
 - Eggs are shipped in January/February and the Coho are raised at other Hatcheries (which ones?)
 - How many fish eggs stay at LNFH and are reared (?) by the Yakama Nation? How many pounds of fish does that equal?
- Juvenile Coho Growth Project **between February and April** each year:
 - 400,000 -450,000 juvenile Coho brought in to Hatchery (trucked in) in February (not sure from where?)
 - About ½ of these fish (200,000) are reared in the big Adult Holding Ponds; the other ½ in the small cement raceways outside on LNFH grounds, with the tents on top
 - Coho Project feeds the juveniles around 5000-6000 pounds of food total between February and April
 - Juveniles released in April out of LNFH Outfall 001
 - No chemicals are used in the growing of these fish while they are part of the project
 - Fish come in at about 20,000-22,000 pounds. Yakama Nation project adding 5-6000 thousand pounds – to release around 27,000-28,000 pounds of fish from Outfall 001. But the project does not rear/grow these fish from the egg stage.
- The Yakama Nation enters into a contract with the USFWS for **September through December. Use of raceways/outfall?** Yakama Nation Coho Project is re-using water that has passed through

the SCS raceways first. The water quality monitoring data on the Outfalls includes what the Yakama Nation is doing.

- Formalin Use: in Fall by Yakama Nation, on adults
 - In Winter by Yakama Nation, on new eggs before shipping eggs out
 - In Spring/Summer by USFWS, treating juveniles that are growing to keep them healthy when water gets warmer
 - June – November are months of highest formalin use
- Formalin dosed only when prescribed by Fish Health Experts. Treats the water, not the fish. Used to reduce parasites and diseases that the fish might contract.
- Greg does not anticipate that formalin will be present in water samples in detectable quantities. Formalin is known to adhere to sediment – sediment goes to pollution abatement ponds and is tested/land applied when it builds up too much. Say something in the Fact Sheet about land application of the sediment?